

## Reproduction and survival of Akiapolaau, Hawaii Akepa, Hawaii Creeper, and Other Native Forest Birds Along a Gradient of **Native Bird Density in Wet Forests of Windward Hawaii** PIERC Project Leader: Bethany L. Woodworth, Ph.D.





## **Objectives:**

- ☆ Determine limiting factors responsible for gradient in forest bird densities in largest wet forest refuge on Hawaii
- ☆ Document life history traits of 3 endangered species native to highelevation rainforests on Hawaii

## **Accomplishments:**

- ☆ Evaluated 6 hypotheses for a gradient in forest bird densities (disease, predation, vegetation, cavities, food, and feral pigs)
- ☆ Documented survival rates, nesting success, dispersal, and population growth rates for 7 species of natives

## Significance:

- ☆ First ecological study of wet-forest bird community as a whole
- ☆ Provided managers with information on limiting factors of native birds within refuge
- ☆ Identified liwi (Vestiaria coccinea) as a species of concern based on demographic modeling USGS-BRD-PIERC Projects